

♀ :—Similar to the male. Fore tibia 1.80 mm., fore basitarsus 3.40 mm.

Holotype :—♂ ; Raleigh, Wake County, NORTH CAROLINA; April 4. (B. B. Fulton). [Acad. Nat. Sci. Phila. No. 6490].

Allotype :—♀ ; Raleigh, Wake County, NORTH CAROLINA; April 6. (B. B. Fulton).

Some Neotropical Syrphid Flies (Diptera).

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This paper presents descriptions of some species of neotropical Syrphids that have been received from several sources. The author is indebted to Mr. J. Lane of Sao Paulo, Brazil, for the privilege of studying many interesting South American species, two of which are described here. Unless otherwise stated, types are in the author's collection.

Microdon hondurania n. sp.

♂. Length 5.5 mm.; antennae 1.5 mm. Head: eyes not approximated above, without pile and the front barely narrower than the parallel-sided face, both of which are broad. Front and upper part of occiput, except the posterior margin along the dorsum, shining dark brown. Face and cheeks pale shining yellow and a pair of similarly colored rectangular spots placed transversely across the middle of the front, barely separated in the middle. Pile of the face and lower part of occiput and the extreme posterior margin of the upper part of the occiput pale yellow. Antennae black, the third joint a little more than twice as long as the first joint.

Thorax: widely dark shining brown over the mesonotum, except narrowly along the sides and for a short distance upon the anterior margin inside of the humeri. The broad, dark central area with faint narrow violaceous vittae. Pleurae and the lateral margin of the mesonotum, the humeri and the scutellum light yellowish brown, the disc of the scutellum slightly darker, its extremely blunt, closely approximated nodulate spines blackish.

Abdomen: short and broad, the whole of the first segment and whole of the second, except for an obscure lateral brown spot, light brownish yellow. The third segment extensively dark brown, its posterior margin narrowly light yellow, extending broadly forward in the middle but not bisecting the anterior

brown band. The fused fourth and fifth segments light brownish yellow with the broad, somewhat diagonal, brown stripe located a little before the middle of the segment, the outer ends of the spot somewhat curved. There are traces of a median brown vitta reaching almost to the posterior margin; hypopygium and venter pale yellow. Pile of the abdomen fine and delicate, dark brown in color, rather thick.

Legs: more or less uniformly brown, the apical third of all of the tibiae barely darker in some lights.

Wings: strongly infuscated with brown, the cross veins still more heavily margined. Subapical cross vein nearly straight, slightly recurrent, the last portion quite rectangular.

One *holotype* male. On small, low growing herbage along the Salada River, fifteen miles inland from Ceiba, S. HONDURAS. (F. M. Hull collector).

Mesogramma croesus n. sp.

♂. Length 6.5 mm. Head: front, face and antennae pale yellow, cheeks brownish, the narrow occiput steel blue, the upper part of the front of the triangle greyish pubescent, the upper two-thirds of the occiput golden brown pubescent, the lower portion greyish.

Thorax: with continuous pale yellow margin confluent with the pale yellow humeri, mesonotum with a prominent metallic grey median vitta margined by a violaceous or coppery brown stripe outside of which is a golden stripe. Between the golden stripe and the yellow margin is a wide violet vitta. Pleurae shining metallic with pale yellow stripes on the posterior half of the mesopleurae and conspicuous spot on the upper part of the sternopleurae. Scutellum metallic golden throughout.

Abdomen: somewhat slender, black marked with yellow on the basal corners; second segment brownish yellow, with a wide, black posterior margin and in the middle of the basal two-thirds a narrowly interrupted brown band that reaches the sides of the segment. Third segment black and shining, the posterior margin yellowish brown, not quite reaching the corners, produced forward as a slender medial stripe to reach the base of the segment. A similarly colored oval spot in the anterior corners but entirely surrounded by black almost confluent basally with a larger brownish yellow spot which itself is drawn out medially and has its two expanded ends turned inward in the direction of the median stripe. Its basal end touches the base of the segment. Fourth segment with almost

identical pattern. The submedial, attenuated spot is basally but narrowly confluent with the median stripe. Fifth segment with a broad median oval spot, widest basally and on either side an equally large subtriangular spot with rounded corners, widest posteriorly where it reaches the posterior corner of the segment. Hypopygium shining black on the right half.

Legs: pale yellow, a broad brownish black band on the outer half of the hind femur and a similar one on the middle half of the hind tibiae.

Wings: elongate, slightly brownish, the stigma dark brown.

Holotype male. Sao Paulo, BRAZIL (J. Lane col.) April 6-8, 1939.

***Mesogramma polygraphica* n. sp.**

♀. Length 6 mm. Head: front black, the sides narrowly pale yellow to the middle of the front, the vertex obscurely violaceous, face pale yellow with a light brown band on the upper half of the middle of the face. Antennae pale brown, cheeks black on posterior two-thirds.

Thorax: black with mesonotal margins and the humeri pale yellow. Pleurae black, a yellow stripe on the posterior half of the mesopleurae and the upper part of the sternopleurae. Scutellum brown on the disc with yellow margins.

Abdomen: black with yellow markings. First segment extensively black posteriorly, the sides and anterior corners yellow. Second segment black with a narrow transverse yellow band from margin to margin, interrupted in the middle and each half of this yellow band semi-interrupted. Third segment with a median yellow stripe, slightly swollen on the base and posteriorly not quite reaching the margin. Three spots lie on either side of this vitta, the group extending two thirds or more the length of the segment. There is a yellow spot in the anterior corners of the segment extended posteriorly and medially to barely connect with a broad and oval postero-medially pointed spot which is narrowly separated from the median vitta and which may, or may not connect with a slightly smaller, vertical and posteriorly pointed yellow spot lying on the basal margin. Fourth segment with practically similar coloration except that the connection of the three spots on each lateral half is slightly broader and the median stripe slightly expands posteriorly and reaches the posterior margin. Fifth segment brownish yellow, the posterior margin black, extending over the posterior two-thirds of the lateral margin, produced forward medially to the

base of the segment before reaching which it produces a black L-like arm on either side, which also reaches the bases of the segment.

Legs: yellow, with an obscure, narrow subapical brown band on the hind femora and a similar one before the middle of the hind tibiae. Hind tarsi brown.

Wing: stigma of wing rather dark brown.

One female. Sao Paulo, Batea, BRAZIL, September, 1937 (J. Lane collector).

***Salpingogaster stigmatipennis* n. sp.**

♀. Length 15 mm. Head: face and cheeks pale yellow with a pale obscure reddish spot about the tubercle. Front and vertex brownish black, the former becoming light brown above the antennae and sharply pale yellow narrowly along the eye margin. Antennae orange brown, black pilose.

Thorax: mesonotum dull light reddish brown with a broad dark brown or blackish vitta in the center, but only upon the anterior two-thirds. Humeri and metanotum light reddish; scutellum similarly colored, except its narrow base, a narrow fascia and its extreme posterior margin, which are yellow. Notopleurae, a vertical somewhat oblique stripe and a spot on the anterior part of the metapleurae pale yellow; pleurae elsewhere light red.

Abdomen: almost wholly pale brownish orange, the posterior margin of the third and fourth segment somewhat diffusely darker. Anterior corners of the second segment and basal corners of first pale yellow. First segment posteriorly with a wide dark brown fascia.

Legs: light yellow, the tarsi and the hind tibiae, except a middle annulus, light brown. Pile of legs chiefly brown, darker brown upon the tarsi and hind tibiae and femora.

Wings: pale brown, nearly hyaline, the anterior margin dark brown, confined to stigmal and marginal and the end of submarginal cell. The costal cell is somewhat paler and a brown triangular spot covers the origin of the second and third veins.

Two *cotypes*, Lindig, VENEZUELA: in the Vienna Museum and in the author's collection.